

CLAIMS

What is claimed is:

1. An apparatus for recording data on an optical recording medium, comprising:
a recording waveform generating unit which generates a recording waveform having an erase pattern containing a multi-pulse and a recording pattern containing another multi-pulse;
and
a pickup unit which generates light to the optical recording medium according to the generated recording waveform so that a mark or a space is formed on the optical recording medium.
2. The apparatus of claim 1, further comprising:
a channel modulation unit which channel modulates data provided from an outside source, and outputs an NRZI data signal to the recording waveform generating unit.
3. The apparatus of claim 1, wherein the pickup unit comprises:
a motor which rotates the optical recording medium;
an optical head having a laser device which generates a laser beam to the optical recording medium or receives the laser beam reflected from the optical recording medium;
a servo circuit which servo-controls the motor and the optical head; and
a laser driving circuit which drives the laser device installed in the optical head.
4. An apparatus for recording data on an information storage medium, comprising:
a recording waveform generating unit which generates a recording waveform comprising a recording pattern, an erase pattern having a multi-pulse, and a cooling pulse concatenating the recording and erase patterns; and
a pickup unit which records with respect to the information storage medium according to the generated recording waveform so as to form a mark and/or a space on the information storage medium.